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UNITED STATES DEPARTMENT OF AGRICULTURE

# FOREST SERVICE

S
PLANTING - Medicine Bow
Annual Report
(Pole Mountain)

1 9 4 0

ANNUAL PLANTING REPORT

MEDICINE BOW NATIONAL FOREST

January 1, 1940 to December 31, 1940

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Laramie, December 27, 1940

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ANNUAL PLANTING REPORT

MEDICINE BOW NATIONAL FOREST

January 1, 1940 to December 31, 1940

B. J. ABRAHAMS
Forest Ranger

Date: _____

APPROVED:

_____, Forest Supervisor
J. S. VEEDER

S
PLANTING - Medicine Bow
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(Pole Mountain)

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PLANTING - Medicine Bow
Annual Report
(Pole Mountain)

Laramie, December 27, 1940

ANNUAL PLANTING REPORT

1 9 4 0

1. Review of the work of the year.

A. Acreage, Name, and Location of Areas.

Total Acreage Planted Was:

| | | |
|---|---|---|
| Pole Mountain Project | (Spring) | 201 Acres |
| | (Fall) | 23 " |
| Centennial Project | | 34 " |
| Centennial Ward Gulch | | 39 " |
| Fox Park Gulch | | 186 " |
| | Total | 483 " |

The legal sub-divisions in which the work was done are as follows:

Pole Mountain Project:

Sections 5, 6, 7; T14N, R71W
Sections 19, 30; T15N, R71W
Section 25, T15N, R72W

Fox Park Project:

Section 8, 17, 18; T13N, R77W

Centennial Project: (Includes Wards Gulch)

Section 23, 24, 33; T16N, R78W

Replanting this year was limited to the Pole Mountain and Centennial Projects. On Pole Mountain 192 acres were replanted. On the Centennial District 34 acres were replanted.

Costs as compared with previous years:

See Sheet A, 2. Appendix, at end of this report.

B. Method and Season of Planting:

No regular planting camps were established on any of the Medicine Bow projects this year. All of the spring planting work was done by the CCC and the fall planting was done by the ERA crew on Pole Mountain. The Pole Mountain Side Camp was established at the Army Camp which was adjacent to

the planting area.

The methods used were the same as in the past, namely, the Deep Hole for the pine species and the Slit for the fir and spruce species. The spring work on both the Pole Mountain and Fox Park districts was entirely Deep Hole, as nothing but Pinus ponderosa was planted. On the Centennial District both methods were used, Deep Hole for the Pinus contorta, and Slit for the Pseudo tsuga taxifolia and the Slit method was used.

The spring planting work on the Fox Park Project was done, starting April 18 and was completed May 7. On the Pole Mountain project work started April 22 and ended May 17. On the Centennial Project work started April 17 and ended May 15.

Moisture in the ground and precipitation during the planting on all projects was very good.

Weather Conditions.

There follows a tabulation of the precipitation during the last 12 months.

Precipitation on the Pole Mountain District, December 1939 to December 1940. Data taken from the U.S.W.B. publication, Climatological Data.

| Year | Month | Normal° Precip. Inches | Actual Pole Mt. Precip. Inches | Greatest in 24 hr. Inches | No. Days with Precip. Of .01 or More | Distribution Snowfall, etc. Inches | |
|---|---|---|---|---|---|---|---|
| 1939 | Dec. | .81 | .37 | .14 | 5 | 5.7 | Snow |
| 1940 | Jan. | .74 | 1.37 | .29 | 16 | 22.8 | " |
| | Feb. | .85 | 1.11 | .35 | 5 | 15.6 | " |
| | Mar. | 1.25 | 1.06 | .27 | 8 | 17.4 | " |
| | Apr. | 2.67 | 2.25 | 1.27 | 11 | 15.9 | " |
| | May | 2.70 | 2.22 | .91 | 10 | 2.5 | " |
| | June | 1.54 | .86 | .54 | 7 | | Rain |
| | July | 1.77 | 3.10 | 1.13 | 13 | | " |
| | Aug. | 1.45 | 1.17 | .57 | 7 | | " |
| | Sept. | 1.28 | 3.73 | .72 | 16 | | " |
| | Oct. | .64 | .70 | .63 | 4 | .6 | Snow |
| | Nov. | .57 | .87 | .21 | 9 | 13.6 | " |

T6.27

Total precipitation for the year 18.81

° No "normal" figures have as yet been established for Pole Mountain. Figures in this column are the average for the previous nine years.

Since the United States Weather Bureau recognizes no "Normal" figures that are based on less than a ten year average from observations, Pole Mountain "Normal" is unknown. However, the "Normal" used for comparison is the average of the previous nine years. Temperatures were slightly above normal on the average, and a good number of days with temperatures above 80° were recorded. Very few freezes occurred after the planting was completed.

The following tabulation shows the temperature range during the growing season.

| Month | Max. | Min. | Mean Max. | Mean Min. | Mean | Days with 80° or Above | Days with 32° or under |
|---|---|---|---|---|---|---|---|
| April | 60 | 1 | 44.7 | 22.6 | 33.2 | 0 | 28 |
| May | 73 | 26 | 57.4 | 32.3 | 44.8 | 0 | 17 |
| June | 80 | 29 | 69.7 | 40.8 | 55.2 | 2 | 4 |
| July | 85 | 40 | 74.0 | 48.0 | 61.0 | 6 | 0 |
| August | 81 | 38 | 72.7 | 43.7 | 58.2 | 4 | 0 |
| Sept. | 78 | 29 | 63.6 | 40.1 | 51.8 | 0 | 1 |

The soil last fall was in a very dry state and this spring all the snow melting just soaked into the ground with very little runoff. This put the soil in very good condition at the time of planting, and was augmented by the precipitation that fell during the planting work. On Pole Mountain work had to stop for two days due to the area becoming snow covered. In June when we needed moisture, we ran short and as a result a number of trees were lost on the drier sites. The plantation on Pole Mountain still has a very good survival this fall and with snow coming as early as it has a very good survival is to be expected at the time of the counting next spring. It is also true of the other Medicine Bow projects.

C. Species - Class and Number of Trees per Acre.

See Sheet A, 2. Appendix at end of this report.

D. Labor Conditions, Wages, etc.

On all of the projects except the Pole Mountain Fall Planting, the labor was entirely CCC. This labor was figured at the rate of $1.50 per day for the enrollees and actual wages were figured for the foremen. The fall planting done by the ERA was figured at the rate of .39 cents per hour.

Supervision of the planting work was not as good as desired, due to the fact that the men trained to supervise the CCC crews were not always used. Some of the men used for the supervision of the crews had planted on the Medicine Bow in previous years, but it was hard to tell from the way they did the job. Prior to the start of the work a whole day was spent with the men who were to be in charge of the planting crews. The men were all supplied with written instructions and these were discussed with them. They were then taken to the field and actual instruction was given them, after which they planted and were corrected when necessary. The men from all of the camps involved were given this training as well as the Camp Superintendents.

On the Pole Mountain Project the ranger took each individual enrollee and instructed him. From then on it was up to the foremen. The foremen, however, did not take the interest in correcting a man they saw doing the job wrong and as a result only a fair rating was given the project. The ranger, due to a mistake, was told by written letter that he would not have anything to do with the supervision of CCC projects in the field other than showing where the work was to be done. The sites to be planted were shown the supervisory force at the time of the planting instruction. Supervision is a very vital factor whether CCC, ERA or P&M labor is used. It is suggested that any planting work done with the CCC hereafter, that the Ranger be given the authority to suggest that the foreman in charge of a planting crew who is found to be lacking in giving proper supervision to the job, be replaced.

E. Protection.

Porcupines - No regular project for the eradication of these pests was carried on anywhere on the Forest, but a large number were killed by men employed on other projects. All porcupines are killed whenever and wherever found.

Rabbits - No control work is being done, but fewer rabbits are to be found than in past years. This is probably due to the increase in the number of coyotes.

Stock - Very little damage was done by stock on any of the planted areas. No planting is done on sheep ranges. On the cattle allotments salt was removed from the area to prevent trampling.

Beaver - Beaver were again found to be flooding areas planted in creek bottoms. This effects our spruce and fir plantations. This animal was trapped this spring by the state on Pole Mountain and 150 removed to other areas on the forest or were pelted.

Fire - No damage from fire occurred and no special protection is given planted areas from fire.

G. Organization of the work, etc.

No camps were established for any of the planting projects this year. The CCC were furnished from camps already established on the forest. The CCC Side Camp was moved to the Army Camp on Pole Mountain prior to the planting. The fall planting was done by an ERA crew from Laramie and these men were furnished government transportation. The ERA crew had been working on Pole Mountain on other projects and were shifted to the planting work.

As stated previously the Foremen and Camp Superintendents were all given instruction prior to the actual planting by the crews. The foremen in turn were to instruct the enrollees. Each foreman was given check sheets on which to record the quality of the work for each man. By the use of

these checks it is easy to tell what part of the job a man is doing wrong and the foreman can concentrate on correcting the faults.

As stated previously the Foremen and Camp Superintendents were all given instruction prior to the actual planting by the crews. The foremen in turn were to instruct the enrollees. Each foreman was given check sheets on which to record the quality of the work for each man. By the use of these checks it is easy to tell what part of the job a man is doing wrong and the foreman can concentrate on correcting the faults.

The crews were organized into groupes of ten men planting and one man as water and tree boy. The number of men in the crews varied from day to day due to the fact the enrollees would get sick or be used on some other job. Many of the enrollees were new men from the state of Oklahoma and not acclimated.

All trees were culled at the nursery before being shipped to the field. The trees for the Pole Mountain project were bundled at the nursery and delivered directly to the job in the Nebraska type tree boxes. On the other projects the trees were shipped to the heeling in beds on the project and bundled as needed. Heeling in beds were located prior to the planting work and the Camp Superintendents were instructed in the method of heeling in. An old transplant board from which the notches had been removed was furnished from the nursery for the heeling in.

All planters were equipped with tree bags and a planting hoe. Foremen were instructed to split bundles between two men if they found that a bundle lasted a man over an hour.

A supply of checking forms were given each foreman and one was kept for each crew daily. The names of the men in the crew were all listed on these sheets and a daily record showed what phase of the job a man was weak in. If the men are given to understand that they are being checked on the quality of the work and not on speed a better job will result.

H. Reforestation Policy. Plan of Work.

Underplanting of aspen was done this spring and fall with the spruce and fir species. These species were all planted on the Centennial project this spring, and on Pole Mountain this fall. On the Pole Mountain project this spring 192 acres were a replant of last years area. Only the more favorable parts of last years area was replanted. As an experiment a small part of the area was furrowed and some snow fences erected. The furrows were made approximately 16 feet apart thus leaving room between for a row of trees planted without the furrows for a check. The furrows were far superior in development.

It was also found that the furrows had a tendency to silt in, on account of some flash floods. However, if Lister furrows were used this trouble might be avoided.

The nursery inventory indicates that the following numbers of transplants will be available for planting next spring.

| | |
|---|---|
| Pinus ponderosa | 361.5 M |
| Pinus contorta | 2.5 M |
| Total | 364.0 M |

Assuming that the same number of trees will be planted per acre as has been averaged in the past, 600, a planting job of approximately 600 acres will result. It is expected that these trees will be culled for the best and, thus, reduce the number available for planting. Even with a very heavy cull it is estimated that a planting job of some 500 acres should result.

With the present outlook on Pole Mountain planting is not advisable to plan on for next year. The Army is now holding intensive manuevers and they expect to use the area more intensively than ever before from now on until further notice. In view of this the nursery stock will have to be planted elsewhere than Pole Mountain. Ponderosa Pine sites on the other divisions of the Forest are not feasable with CCC as the travel distance is too great. Some plan will be worked out prior to the planting season.

The present plans call for planting as a CCC or ERA project. On this basis a job of approximately 2,000 man days will be required.

No planting on the Medicine Bow is being planned at present after 1941.

## RESULTS OF PLANTING LAST 5 YEARS

### Medicine Bow National Forest

| Year | Plantation No. | Age Class | Species | Acres | Survivals 1st yr. % | Survivals 1st yr. Per A | Survivals 2nd yr. % | Survivals 2nd yr. Per A | Survivals 3rd yr. % | Survivals 3rd yr. Per A | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1940 | | | | | | | | | | | |
| Pole Mt. | P-58 | 2-1 | Pinus ponderosa | 201 | | | | | | | To be counted ~~Spring~~ Fall 1941 |
| | P-59A-B | 3-0 | Pseudo tsuga tax: | 23 | | | | | | | " " " Fall 1941 |
| Fox Pk | P-2A-B | 2-1 | Pinus ponderosa | 186 | | | | | | | " " " ~~Spring~~ Fall 1941 |
| Centennial | P-2A-B | 2-1 | Pinus contorta | 34 | | | | | | | " " " " " |
| Ward Gch | P-1 | 3-1 | Picea engelmanni | 19 | | | | | | | " " " " " |
| " | P-2 | 3-0 | Pseudotsuga taxifolia | 20 | | | | | | | " " " fall " |
| 1939 | | | | | | | | | | | |
| Pole Mt. | P-54 | 2-1 | Pinus ponderosa | 292 | 6 | ~~36~~ 37 | | | | | Severe drouth |
| | P-55 | 2-1 | Picea pungens | 23 | 42 | 278 | | | | | In protected aspen bottom. |
| | P-56 | 2-2 | Pinus ponderosa | 68.4 | 3.6 | 26 | | | | | Steep S. Slope. Severe drouth |
| | P-57 | 2-1 | Pseudo tsuga tax: | 8.5 | 47 | 310 | | | | | In protected aspen bottom. |
| Centennial | P-1 | 2-1 | Pinus contorta | 82 | 29 | 186 | | | | | 34 acres replanted 1940. Survival based on remainder mostly in aspen. |
| Fox Park | P-1 | 2-1 | J. Scopulorum | 14.5 | 0 | 0 | | | | | Severe drouth. |
| 1938 | | | | | | | | | | | |
| Pole Mt. | P-51ABC | 2-1 | Pinus ponderosa | 272 | 78 | 444 | | | | | Evidence of losses from drouth 1939. |
| | P-52 | 2-1 | Pseudo tsuga tax: | 56 | 91 | 536 | | | | | " " " " " |
| | P-53 | 2-1 | Pinus contorta | 54.8 | 94 | 555 | | | | | " " " " " |
| 1937 | | | | | | | | | | | |
| Pole Mt. | P-47 | 2-1 | Pinus contorta | 26 | 94 | 578 | 77 | 473 | | | Drouth 1939 and rabbits. |
| | P-48A | 2-1 | Pinus ponderosa | 60 | 85 | 541 | 49 | 312 | | | " " " " |
| | P-48B | 2-1 | " " | 5.4 | 87 | 564 | 10 | 65 | | | " " severe site. |
| | P-48C | 2-1 | " " | 32.8 | 87 | 553 | 41 | 261 | | | " " |
| | P-49A-D | 2-1 | Picea Albertiana Glauca | 4.2 | 97 | 554 | 74 | 422 | | | 3rd yr. counts based on 1.7A Beaver |
| | P-50A-I | 2-1 | Pseudo tsuga tax: | 38 | 94 | 594 | 43 | 271 | | | Drouth 1939 |

## RESULTS OF PLANTING LAST 5 YEARS - Continued

Medicine Bow National Forest

| Year | Plantation No. | Age Class | Species | Acres | Survivals 1st yr. | Survivals 2nd year | Survivals 3rd yr. | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1936 | | | | | | | | |
| Pole Mt. | P-42A | 2-1 | Pinus flexilus | 15.6 | 33 :227 | 29: 200 | 0 : 0 | Severe drouth years. |
| | P-42B | 2-1 | " " | 14.7 | 44 :281 | 31: 198 | 4 : 26 | " " " |
| | P-42C | 2-1 | " " | 31.3 | 65 :~~416~~544 | 34: 217 | ~~4~~6: 38 | " " " |
| | P-43 | 2-1 | Pinus ponderosa | 68.8 | 80 :516 | 31: 200 | 19 : 123 | " " " |
| | P-44A | 2-1 | Pinus contorta | 13.7 | 62 :390 | 32: 200 | 21 : 132 | " " " |
| | P-44B | 2-1 | " " | 31.4 | 67 :422 | 32: 200 | 24 : 151 | " " " |
| | P-45 | 2-1 | Picea pungens | 4 | 91 :523 | 88: 506 | 54 : 310 | Drouth 1939. Excellent site. |
| | P-46A-H | 2-1 | Pseudo tsuga tax | 39.1 | 62 :344 | 51: 283 | 14 : 78 | Drouth years. |

R-2 TM Handbook

A-68

SHEET A

Annual Planting Report

Med. Bow National Forest January 5 1941.

Planting

| Project and plantation number | Acres | Species | Source and age of stock | Number of trees per acre | Trees | Cost per acre° Ground preparation | Planting | Transportation | Other | Total cost per A. | Value of contributed time included in total |
|---|---|---|---|---|---|---|---|---|---|---|---|
| (January to June) | | | PoleMtn. | | | | | | | | |
| Pole Mountain, P58 | 201 | P.Pond. | 2-1 | 607 | 4.44 | .07 | 7.50 | .16 | .08 | 12.25 | .14 |
| Foxpark P2A-B | 186 | " | 2-1 | ~~540~~ 538 | 3.93 | | 5.42 | .43 | .12 | 9.90 | .09 |
| Centennial P2A-B | 34 | P.Contorta | 2-1 Foxpark m.b. | 600 | 5.20 | | 10.95 | .35 | .12 | 16.62 | .06 |
| Wards Gulch P1 | 19 | P.Engelmanii | 3-1 | 752 | 8.96 | | 12.55 | .49 | .12 | 22.12 | .06 |
| Wards Gulch P2A-B | 20 | Pseudot. Tax. | 3-0 | 685 | 5.11 | | 10.65 | .63 | .12 | 16.51 | .06 |
| (July to December) | | | PoleMtn. | | | | | | | | |
| Pole Mountain P59A | 12 | Pseudot. Tax. | 3-0 | ~~609~~ 608 | 2.66 | | 9.02 | .38 | .08 | 12.14 | .21 |
| P59B | 11 | " " | 3-0 | 609 | 2.66 | | 9.02 | .38 | .08 | 12.14 | .21 |

Total acreage 483 Total cost $5,897.53

Weighted average cost per acre for current year $12.21 ; ~~for previous 5-year period~~ ..

Weighted average cost per M for current year $20.74 ; ~~for previous 5-year period~~ ..

1/4/38

°See instructions on back of Form 134.

°°~~Do not include current year in this average.~~

°10/1/39

SHEET B

Annual Planting Report

**Medicine Bow** National Forest

Coniferous Seed Collection and Extraction

| Species (1) | Bushels Collected and Purchased (2) | Pounds Clean Seed (3) | Clean Seed Purchased Pounds (4) | Clean Seed Purchased Cost per lb. (5) | 5-yr. average cost per lb. clean seed extracted by F.S. (6) |
|---|---|---|---|---|---|
| For Forest Service Use | | | | | |
| N O N E | | | | | |
| Subtotal: | | | | xxx | xxx |
| For Cooperators | | | | | |
| Subtotal: | | | | xxx | xxx |
| Total | | | | xxx | xxx |

Col. (1) Group minor species, involving only a few pounds of seed, in one entry "minor spp."
List major species usually collected, even though none gathered this year, so that average costs may be entered in col. (6).
Make only 1 entry for each species. Show total quantities in cols. (2), (3), (4) and weighted average costs in cols. (5), (6).

Col. (3) Enter if available. If not, show "no data." It is not required that missing data be submitted later.

Col. (4), (5). Report amount and cost of purchased seed, as distinct from purchased cones or fruits shown in Col. (2).

Col. (6) Weighted average cost of clean seed of major species collected and extracted during previous 5 years.

SHEET C °10/1/39

Annual Planting Report

Medicine Bow National Forest

Hardwood Seed Collection and Extraction

| Species | Bushels Collected and Purchased | Pounds Clean Seed | Clean Seed Purchased: Pounds | Clean Seed Purchased: Cost per lb. | 5-yr. average cost per lb. clean seed extracted by F.S. |
|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) |
| **For Forest Service Use** | | | | | |
| NONE | | | | | |
| Subtotal | | | | xxx | xxx |
| **For Cooperators** | | | | | |
| Subtotal | | | | xxx | xxx |
| Total | | | | xxx | xxx |

Col. (1) Group minor species, involving only a few pounds of seed, in one entry "minor spp."
List major species usually collected, even though none gathered this year, so that average costs may be entered in col. (6). Make only 1 entry for each species. Show total quantities in cols. (2), (3), (4) and weighted average costs in cols. (5), (6).

Col. (3) Enter if available. If not, show "no data." It is not required that missing data be submitted later.

Col. (4), (5). Report amount and cost of purchased seed, as distinct from purchased cones or fruits shown in Col. (2).

Col. (6) Weighted average cost of clean seed of major species collected and extracted during previous 5 years.

°4/1/40

SHEET D

Annual Planting Report

Medicine Bow National Forest

1. °The Planting Job - Acres°°

| State and Forest | Areas to be Planted: Covered by Intensive Planting Surveys: Current Year: Gross | Areas to be Planted: Covered by Intensive Planting Surveys: Current Year: Net | Areas to be Planted: Covered by Intensive Planting Surveys: Net total to date | Areas to be Planted: Needing intensive surveys | Areas to be Planted: Total | Average annual planned planting program for next 5 years |
|---|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| Med. Bow | | | 15,027.0 | 12,230.0 | 27,257 | 450 A. |
| Total | | | 15,027.0 | 12,230.0 | 27,257 | 450 A. |

II. Reforestation Recommended for Current and Next Fiscal Years°°

| Fiscal Year | Name of Planting Project | Number of acres to be planted | Species and age-class | Method to be used | Planting Season | Total number of trees needed | Shipping Address and Instructions |
|---|---|---|---|---|---|---|---|
| 1941 | Pole Mtn. | 500 | P.Ponderosa | Deep Hole | Spring | 300 M | Med. Bow |
| | | 4 | P.Contorta | " | " | 2.5 M | " " |
| Total | | 504 | | | | 302.5M | |

III. Estimated Cost of Reforestation Recommended-Current & Next F.Y.'s°°

| Fiscal Year | Number of acres | Actual Cash Outlay Required Per Acre | Total Cash Outlay Necessary | Contributed Time and Expense | Indicate Availability of ERA or CCC labor |
|---|---|---|---|---|---|
| 1941 | 504 | $6.00° | $3024.00 | $200.00 | CCC available ERA doubtful |
| Total | 504 | $6.00 | $3024.00 | $200.00 | |

°°See instructions on back of the form.

° Based on hired labor @ $4.00 for eight hours per day. No subsistence.

SHEET ~~J~~ E

Annual Planting Report

Medicine Bow National Forest

Blister Rust Control

| State | Forest | Acres planted needing Ribes eradication: Eradicated | Acres planted needing Ribes eradication: To be eradicated | Acres needing Ribes eradication because of expected future planting |
|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) |
| | NONE | | | |
| Total | | | | |

Col. 3, 4, 5. Report gross area, including isolation zone surrounding plantations.
Report accomplishment of or need for initial treatment. It is assumed that ~~report~~ repeat treatments will be scheduled and accomplished as needed.

Col. 4. In report discuss plans for treating areas reported in this column.

12/15/38

SHEET ~~E~~ F

Annual Planting Report

Medicine Bow National Forest

Knutson-Vandenberg Fund Planting

| State and Forest | Planting: Current Year: Acres planted | Planting: Current Year: M stock planted | Planting: Total to Date: Acres planted | Planting: Total to Date: M stock planted | Expenditures: Current year | Expenditures: Total |
|---|---|---|---|---|---|---|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| N O N E | | | | | | |
| Total | | | | | | |

Col. 2. Report Spot Planting by M only and explain by footnote. Show seeding separately.

Col. 2,4. Areas reported here are also included in current and total planting in table No. 7 and in current planting in table No. 8